



UNIVERSITY Bulletin of TORONTO

A publication of The University News Bureau, 45 Willcocks Street (928-2102)

FRIDAY 30th MARCH

Work permits needed by all foreign students

A memorandum on the subject of foreign students' work permits has been sent to all principals, deans and directors by Prof. Jill K. Comway, Vice-President, Internal Affairs.

Basically, the memorandum warns that after March 31, 1973, it will be illegal for any employer to knowingly have in his employ anyone who is not a Canadian citizen or landed immigrant and who does not possess an employment visa (work permit) or other written authorization to work from an immigration officer.

Employment visas will normally be obtained in the following manner: the Manpower office will determine whether or not three are any qualified Canadian citizens or landed immigrants available for the position, if it certifies that there are

the position, if it certifies that there are no Canadians or landed immigrants available, the Immigration office is then required to give final approval. This procedure must be followed by all non-citizens and non-immigrants except foreign students in certain categories. These students are not required to obtain the certification of the procedure of the August of the Company of the Compa are not required to obtain the certifica-tion of the Manpower office before taking a job but they must still present them-selves to the Immigration office, which will issue an employment visa. The cate-gories of exemption from obtaining cer-tification from the Manpower Office are as follows: students from foreign universias follows: students from foreign universi-ties or technical institutions coming for temporary employment and sponsored by the International Association for Students of Economics and Commerce or by the Inof Economics and Commerce or by the In-ternational Association for Exchange of Students for Technical Experience; special program students under the sponsorship of the Canadian Interna-tional Development Agency, foreign students when it is proven that the in-tended employment forms an essential and integral part of their course of study (see below); post-graduate for-eign students engaged by a Canadian university as a teacher, professor, or visiting lecture. (Important. This last category of exemption includes teaching assistants.)

assistants.) It should also be noted that research students holding fellowships are not employed and are therefore not subject to the regulations. Enquiries about compliance should be directed to Robert Brown, Director of Personnel.

Foreign Students' Work Permits

Foreign Students Work Permits
Any non-Canadian or non-immigrant
must obtain an employment visa before
taking a job of any kind. This means that
foreign students will probably have a
difficult time obtaining summer jobs unless they can obtain exemption from the
necessity of getting Manpower office certification under the category of taking
"employment which forms an essential
and integral part of their course of study".
Therefore, departments are urged to give
every possible assistance to foreign students whose job search would be facilitated by written evidence from the University that the job is at least a desirable versity that the job is at least a desirable practical supplement to their academic programs (if not actually an "essential and integral part of their course of

and integral part or user courses, study").

The memorandum also says that no employer is precluded under the regulations from offering employment to non-citizens or non-immigrants conditional upon the individual's obtaining the necessary authorization.

UTFA annual meeting

The U of T Faculty Association's annual general meeting will be held on Thursday, April 5 in the Medical Sciences auditorium (2158) at 4.10 p.m. The president, Prof. S. M. Uzumeri, urges faculty members to attend.



DAVID PRIDDLE, supervisor of in-struments in Department of Chemistry, struments in Department of Chemistry, who has been elected president of U of T Staff Association. Other officers are: first vice-president, Charlotte Turnbull, History; second vice-president, William Morrison, Civil Engineering; secretary, Prudence Tracy, U of T Press, and treasurer, Ian Christie, Computer Centre.

New Program debate begins with criticism

The report of the Presidential Advisory Committee to Review the New Program in Arts and Science was before the Faculty Council's General Committee for discourse.

the Faculty Committee a special meeting last Monday.

Prof. Kenneth Bryden, chairman of the General Committee, explained that the steering committee had arranged for the Committee to answer questions, after an introductory statement by the committee chairman, Prof. D. E. Berlyne. Then the recommendations would be dealt with.

Prof. Berlyne told the General Com-mittee that as chairman he had mainmittee that as chairman he had maintained a position of strict neutrality, rather like that of the Speaker of the House of Commons, and as a result, of all the members of the committee, he had had the least influence upon the construction of the recommendations.

The report had been an enormous task to complete in a limited time, he said. But the committee had worked together in harmony and had never split on faculty-student lines.

Prof. James B. Conacher was critical

on taculty-student lines.

Prof. James B. Conacher was critical
of the manner in which the steering
committee had arranged for the report
to be considered by the General Committee. He said there should be
a general discussion before the recom-(See page 2, col. 3)

Centennial lecture on aerospace studies

The next lecture in a series of eight celebrating the centennial of the Faccelebrating the centennial of the Fac-ulty of Applied Science and Engineering and its predecessor, the School of Prac-tical Science, will be given on Wednes-day, April 4 in Convocation Hall at 1 p.m. by Prof. G. N. Patterson. The sub-ject will be "Aerospace Engineering — The Next Hundred Year."

Dr. Patterson is the Director at the In-stitute for Aerospace Studies at U of T.

Study of women faculty is reported to be going well

The following statement has been issued by Dr. Peter Meincke, Vice-

The initial work of the committee on employment conditions of full-time women faculty is progressing reasonably well. Questionnaires based on material supplied by a group of concerned women faculty have been sent to all full-time women faculty members. Over 70% of these have been returned to date.

The Principals, Deans and Directors have also been asked to provide, either themselves or through their chairmen, certain financial and other information. All this information is coded so that individuals and departments are not identified in the discussion of the com-

So far the committee has considered about 40% of the cases and has con-cluded its investigation in about 70% of cluded its investigation in about 70% of those cases it has considered. In many instances, it will probably be necessary to ask for clarification of certain points. However, there are some cases where a fuller investigation of the apparent anomaly will be necessary before the committee will have enough information on which to base a recommendation.

The committee has chosen the method The committee has chosen the method of peer identification in determining whether or not a salary anomaly exists. Both the department chairman and the woman faculty member have been asked to submit the names of a male peer, that is a male colleague whose qualifications and work experience are most like that of the works feetly remeter. that of the woman faculty member. In many cases, it has been very difficult to find an exact peer and it has been neces-

sary to chose male colleagues whose qualifications and work experience are only close to those of the woman faculty only close to those of the woman faculty member. In such cases, we have asked for two or more peers to be selected. If the salaries of the peers chosen by the chairman and the woman faculty member are reasonably close to the salary of that woman faculty member are reasonably close to the salary of that woman faculty member, then the committee concludes that no salary anomaly exists in that case. If the peers are identical but are paid substantially more than the woman faculty member, the committee decides on an amount to recommend to the Vice-President and Provost, for the cor-Vice-President and Provost, for the cor-rection of the anomaly in the 1973-74 estimates. If there is a marked difference estimates. If there is a marked difference between the peer chosen by the woman faculty member and the peer chosen by the chairman of the department, then a questionnaire is administered to a num-ber of male colleagues in the depart-ment (not just chosen peers) in order to establish a peer. Confidentiality will be maintained but in some cases it may be necessary for the woman faculty member and/or the chairman to meet with the committee.

member and/or the chairman to meet with the committee.

It has been pointed out to the committee on several occasions that it should also be considering cases of potential anomalies in the case of male faculty, as well as part time faculty and non-academic staff. The terms of reference of the committee included only full time women faculty because it was necessary to start with a limited task in order to arrive at some recommendain order to arrive at some recommenda-tions for this year. A complete review would take much longer, and it would have been impossible to make any recommendations this year.

12 will receive honorary LL Ds at May and June Convocations

Twelve honorary degrees of Doctor of Laws will be conferred at nine of the 12 Convocations to be held this May

12 Convocations to be held this May and June. The honorary graduands are: Douglas Educard Cannell, M.B., B.Sc. (Medicine), U of T; retired professor and chairman, Department of Obstetrics and Gynaecology, Faculty of Medicine; now medical director, Ontario Cancer Treatment and Research Foundation.

May 28, 2.30 p.m.
Mrs. R. C. (Kay) Riddell, B.A. (Vic.,
U of T) for 20 years overseas student
adviser at U of T, first director of the
International Student Centre. May 29,

Camille A. Dagenais, Officer of the Order of Canada, member of National Research Council, chairman of the Comité d'Expertise Sciences Appliquées of the Quebec Ministry of Education,

professional engineer, president of SNC Limited, Montreal. June 1, 2.30 p.m. John T. Dyment, B.A.Sc. (U of T); Engineering Alumni Medal, 1969; for 31 years chief engineer, Trans Canada

31 years chief engineer, Trans Canada Airlines and its successor, Air Canada. June 1, 2,30 p.m. Elizabeth Muriel Gregory MacGill, B.A.Sc., 1927, U of T (one of the first women or graduate in Engineering); first woman to graduate in the U.S.A. as an aeronautical engineer; during the Second World War designed the "Chipmunk", a special duty trainer aircraft and was in 'charge of engineering in production in charge of engineering in production of Hawker Hurricanes in Canada; since

of Hawker Hurricaines in Lannalat; since 1944 consultant in aeronautical engi-neering, June 1, 2.30 p.m. (The Convocations on June 1 are for graduates of the Faculty of Applied Science and Engineering, which is cele-brating its Centennial this year.)

Walter Lockhart Gordon, member, Board of Governors, U of T, 1945– 1963; chairman, Royal Commission on Canada's Economic Prospects, 1955; M.P. and member of the federal cabinet, as Minister of Finance and President of the Privy Council, 1962–1968. June 4, 1830 a.m.

Robert D. C. Finch, B.A.(U.C.), re-tired professor of French, poet, painter, scholarly musician, winner of the Gover-nor General's award for literature twice and of the Lorne Pierce Medal. June 5, 10.30 a.m.

Farley Mowat, B.A. (U of T), author specializing in subjects related to the Canadian North and conservation, win-

June 5, 2.30 p.m.

Larkin Kerwin, physicist, SecretaryGeneral of the International Union of

Larkin Kerucin, physicist, Secretary-General of the International Union of Pure and Applied Physics; recently appointed the first non-clerical Rector of Laval University, June 6, 2.30 p.m. R. Gordon Robertson, M.A. (U of T), public servant who, among other positions, has been Deputy Minister of Northwest Territories; now Clerk of the Privy Council and Secretary to the Cabinet at Ottawa. June 7, 2.30 p.m. Ned J. McKimon, member, Board of Governors, U of T, 1958–69; co-chairman, U of T National Fund, 1959; chairman, Canadian Imperial Bank of Commerce, June 8, 2.30 p.m. Hugh Le Caine, nuclear physicist who helped establish at U of T the first electronic music studio in Canada, composer of electronic music and one of the world's foremost designers of electronic musical instruments. June 11, 2.30 p.m.

COMING EVENTS

MARCH

30 FRIDAY Colloquium •Chemistry

Lectures Biology

Labour

Environment

Music

31 SATURDAY Meeting Clinical research

Annual meeting of the Clinical Research Society of Toronto. Inn on the Park. 9 a.m.-5 p.m. Two simultaneous sessions of papers and luncheon

APRIL 1 SUNDAY

2 MONDAY

Lecture Housing Music

Meeting

3 TUESDAY Law

Medicine

Mathematics

Seminarş Medicine

Sociology

Colloquium Mathematics

4 WEDNESDAY

Medicine Physiology

Engineering

Editor of Nature

Mathematics

Inaugural Address nagemen

5 THURSDAY Meeting

Medicine

Management

Archaeology

"Molecular Energy Transfer in Chemical Lasers". Prof. T. A. Cool, Cornell University. 158 Lash Miller Chemical Laboratories. 4 p.m. (Chemistry)

"Small Systems of Nerve Cells". Dr. Allen I. Selverston, Department of Biology, University of California at San Diego. 432 Ramsay Wright Zoological Laboratories. 12 noon. (SGS and Zoology)

тем тheme of Worker's Control of Industry in the British Labour Movement'. Robin Blackburn, editorial board member, New Left Review. 229 Borden Building. 2 p.m. Seminar follows (SGS and Sociology)

"Economic Organization of Refuse Collection Services". Prof. Dennis Young, Program for Urban and Policy Sciences, SUNY, Stony Brook. 143 Ramsey Wright Laboratories. 3 p.m. (Urban and Community Studies)

"The Towneley Crucifixion" by Poculi Ludique Societas. Royal Ontario Museum. March 30 and 31 at 6 p.m. Free

9th Annual Symposium for student composers. Concert Hall, Edward Johnson Building. For information call 928-3771. March 30, 31 and April 1. (Music)

Hart. House Chorus with orchestra (Bernstein and Mozart). Great Hall, 9 p.m. Free – tickets available from Hall Porter (Hart House Music Committee)

"Experiences in Housing". Irving Grossman, Toronto architect. 103 Faculty Building. 8.30 p.m. (Architecture)

Organ recital by Dr. Charles Peaker, with Harry McCarthy, baritone. Convocation Hall. 5.05 p.m.

Convocation 1246, 5309 p.111.
Toronto recital debut of Prof. Stephen Chenette, trumpet. Concert Hall, Edward Johnson Building, 8.15 p.m. Free. (Music) Second meeting held by the General Committee to consider the Berlyne Report. 3153 Medical Sciences Building, 4–6 p.m. (General

The 5th Annual Cecil A. Wright Memorial Lecture – "Reflections on Law Reforming", Prof. L. C. B. Gower, Vice-Chancellor, University of Southampton, and formerly a Law Commissioner. Moot Court, Faculty of Law. 4 p.m. (Law)

Procurs of Law., a Din. (Law).
Theng Actions on Sodium Transport in Single Muscle Fibres". Dr. E. E. Bittar, Department of Physiology, University of Wisconsin. S22T Medical Science Bullding, 4 pm. (SCS and Bioschemistry).
"Asymptotic Expansions". Dr. Joseph B. Keller, Courant Institute, New York University, 2117 Sidney Smith Hall, 4.10 pm. (SCS and

Possible DNA Changes in the Brain During Learning". Dr. S. Reinis, Department of Psychology, York University. 4279 Medical Sciences Building. 4 p.m. (Pharmacology)

Sciences Building, 4 p.m. (Pharmacology)
"Science and Critique: Toward a Communication Theory of Society".
Prof. Albrecht Welluer, Craduate Faculty, New School for Social
Research. 229 Borden Building, Tuesday at 10 a.m. and 2 p.m.,
Wednesday, April 4, at 10 a.m. (Sociology)
"Mathematical Problems in Athletics and Biology", Joseph B. Keller,
New York University. 2117 Sidney Smith Hall. 4.10 p.m. (Mathematics)

Belva Spiel, soprano. Music Room, Hart House. 1 p.m. (Hart House Music Committee.) Free

"Toxoplasmosis – Recent Advances". Dr. J. K. Frenkel, Department of Pathology and Oncology, University of Kansas, 103 School of Hygiene 4 p.m. (SCS and Hygiene) "Physiology of Diving" Dr. Karl E. Schaeffer, Naval Submarine Medical Research Laboratory, Naval Submarine Base, New Lundon Groton, Conn. 432 Ramsay Wright Zoological Laboratories. 4 p.m. (SCS and Zoological) (SGS and Zoology)

Contennial lecture series – "Aerospace Engineering – The Next Hundred Years". Prof. G. N. Patterson, Institute for Aerospace Studies. Convocation Hall, 1 p.m. (Applied Science and Engineering)

"Some Further Thoughts on the Doomsday Syndrome". John Maddox, Editor of the British Scientific Journal Nature. Upper Library, Massey College. 3 p.m. (International Relations Committee, 1921) ISP)

[SF] "Asymptotic Expansions", Dr. Joseph B. Keller, 1072 Sidney Smith Hall. 4.10 p.m. (SCS and Mathematics)
Prof. Robert J. House will give his inaugural address "The Role of the Management Faculty in Modern Society" to mark the establishment of the Shell Chair in Organizational Behaviour and Development, funded by Shell Canada. Room N-302, OISE, 262 Bloor Street West, 4.30-5.30 p.m. (Management Studies)

An evening of music for woodwinds. Concert Hall, Edward Johnson Building, 8.15 p.m. Free. (Music) Anita Brown, pianist. Great Hall, Hart House. 8.30 p.m. (Hart House Music Committee)

U of T Faculty Association's annual general meeting. Medical Sciences auditorium (2158). 4.10 p.m. Society and Culture Series. "Universities and Culture". David Silcox, Assistant Dean, Faculty of Fine Arts, York U. ROM Theatre. 8.30

"Problems in Toxoplasmosis". Dr. J. K. Frenkel. 235 School of Hygiene. 2 p.m. (SGS and Hygiene)

"identifying Managerial Talent: Where Do We Go from Here?"
Edwin E. Chiselli, professor emeritus, University of California. 7th
Floor Conference Room, 246 Bloor St. West. 3 p.m. (SGS and Management Studies) "Akhenaten's Sun-disc Temple at Thebes". Prof. Donald B. Redford. Lecture Room, McLaughlin Planetarium. 4.30 p.m. (Archaeological Institute of America, Toronto Society) 5 THURSDAY

Biometrics Linguistics

Colloquium Physics

JUD Medical Sciences Building, 10 a.m. (Biometrics)
"Fre-suppositions in a Transformational Crammar". Prof. David
Lightfoot, McGill University, Seminar room, 47 Queen's Park Cres.
East, 3.15 p.m. (Linguistic Studies)
"Nuclei, Nucleons and Nuts", Prof. P. Kirby, 102 McLennan Physical
Laboratories, 4.10 p.m. (Physics)
Thursday aftermoon series. Faculty of Music student ensembles
recital. Concert Hall, Edward Johnson Building, 2.10 p.m. Free.
(Music)

"A Fresh Look at Covariance". Dr. S. R. Searle, Cornell University. 3163 Medical Sciences Building. 10 a.m. (Biometrics)

The Cleveland String Quartet. Concert Hall, Edward Johnson Building, 8.30 p.m. Tickets \$4.00, Student \$2.00. (Music)

Alex Buchnea, baritone, Music Room, Hart House. 1 p.m. (Hart House Music Committee.) Free "The Origin of Operational Research". Harold Lardner, O.B.E. 203 McLennan Physical Laboratories. 12.10 p.m. (Varsity Fund, SGS

Lecture by Dr. Jesse Shera, Dean Emeritus, School of Library Science, Case Western Reserve University. Lecture Theatre, 140 St. George St. 8 p.m. (Library Science)

Elite Circulation in North Africa". Prof. I. William Zartman, chairman, Department of Politics, New York University. Music Room, Hart House. 11 a.m. (Islamic Studies)

Triduction of Clutanine Synthetase by Cortisol in the Chick Embryo Retina: Immunoprecipitation of Polysomes For the Enzyme". Dr. P. K. Sarkar, Department of Biology, University of Chicago. 417 Best Institute. 2 p.m. (Banting and Best)

"The History, Resources, Organization and Future Acquisition Plans of the India Office Library. Miss Joan Lancaster, Librarian and Keeper, India Office Library, Upper Library, Massey College. 2-4 p.m. (South Asian Studies Committee, ISP)

"Concerted and Stepwise Mechanisms for Cycloaddition". Prof. P. D. Bartlett, Harvard University. 15 Lash Miller Chemical Laboratories. 4 p.m. (Chemistry)

"Some Human Considerations of Environmental Design". Prof. Kiyoshi Izumi, School of Urban and Regional Planning, University of Waterloo. 103, 230 College St. 8.30 p.m. (Architecture)

or waterioo, 103, 230 Coiege St. 5.30 p.in. (Architecture) Capital Market Workshop – 'Risk Investignent Strategy and the Long-nm Rotes of Return in NYSE Common Stock', 'Prof. Irwin Friend, Rodney L. White Center for Financial Research, University of Pennsylvania, the Whatton School. Conference Room, 7th floor, 240 Bloof St. V. 2 p.m. (Management Studies)

"Some Geometric Problems on Stein Manifolds". Prof. Phillip A. Griffiths, Harvard University. 2117 Sidney Smith Hall. 4.10 p.m. (Mathematics)

"On Holomorphic Mappings". Prof. Phillip A. Griffiths. 2117 Sidney Smith Hall. 4.10 p.m. (Mathematics) June Rilett, soprano. Music Room, Hart House. 4 p.m. (Hart House Music Committee.) Free

Social Roles in the Courtroom Drama". Prof. James Giffen. Falconer

Social Roies in the Courthouse Draina - Fron. James Chiefic. Mill. 12.30 to 2 p.m. (Law)
"Martin Luther – A Reassessment". Prof. Harry J. McSorley. Carr
Auditorium, S. Michael's Hospital. 8 p.m.
Classical Brass. Great Hall, Hart House. 8.30 p.m. (Hart House

Organ recital by Olive Strand. Convocation Hall. 5.05 p.m.

Faculty Club wine & cheese party. 8 to 10.30 p.m.

6 FRIDAY

Science

Library Science

Africa

Biology

India library

Colloquium Chemistry

Party 9 MONDAY

Lecture Environmental design Workshop

Colloquium Mathematics

10 TUESDAY Colloquium Mathematics

11 WEDNESDAY Seminar Court & Trials

12 THURSDAY

Linguistics

Colloquium

Music

Lecture Luther Music

Music Committee)

"Do We Need Decomposition in Phonology?" Prof. Yves Charles Moran, Université de Montréal. Sendinar room, 47 Queen's Park

Moran, Université de Montréal. Seminar room, 47 Queen's Park Cres, East. 31.5 p.m. (Linguistic Studies)
"Liquid Crystals", Prof. A. Arrott, Simon Fraser University, 102 McLeman Physical Laboratories. 4.10 p.m. (Physics)
Thursday afternoon series. Faculty of Music student ensembles recetal. Concert Hall, Edward Johnson Building, 2.10 p.m. Free. (Music)

New Program debate has begun

(Continued from page 1)

mendations were taken up. He pointed out that the more than 200 appendices - copies of briefs to the committee and research papers commissioned by the committee had not been read by members of the General Committee and the information therein was necessary for a proper understanding of the reasoning behind the recommendations.

Prof. Bryden replied that he intended to regard Recommendation No. 1 (the proposal that four distinct types of undergraduate programs be recognized) as a topic sufficiently broad to permit a as a topic sufficiently broad to permit a wide-ranging discussion of the report in general.

general.

Prof. Michael Marrus also objected to
the absence of the supporting documents and complained that insufficient
time had been permitted for a study of
the report before it was presented to the
General Committee. He called it "in
essence a secret report".

Prof. Berlyne said that the appendices
were too voluminous to circulate. The
three sets for the President had been
taken to his office in a large suitease.
They could be seen in the University
library. Asked about the way in which
his committee had compared the recom-

his committee had compared the recom-mendations of the Macpherson Commit-tee report (which led to the present New Program) with those now offered, Prof. Berlyne said the Macpherson in-

quiry was quite different from the one just completed. "Our committee was not another Macpherson committee", he said, "and my role was quite different from that of Prof. Macpherson".

Dean Robert A. Greene, who had asked the General Committee for its asked the General Committee for its opinion of the report, said that what the General Committee thought would have considerable weight with those responsible for its implementation. David Laughton, student member, asked who would be responsible for implementation. Prof. Bryden said that in his opinion action would lie, firstly, with the President, who had instituted the committee, and, finally, with the Gov-

erning Council.
On a show of hands, the General On a snow or nands, the central committee voted to ask that the results of questionnaires used by the investigating committee in its work be made available and asked for a list of all reports and documents generated by that committee. But a motion by Prof. Donald Chant that the General Com-mittee not vote on any of the recommendations until the questionnaires were available resulted in a tie – 39 for, 39 against – whereupon Prof. Bryden said it was defeated.

Discussion of the report will be continued at another special meeting on Monday, April 2, at 4.10 p.m. in Room 3153, Medical Sciences Building.

9 new Councillors elected and 4 are returned

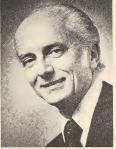
U OF T TEACHING STAFF ELECTS FOUR MEMBERS TO THE GOVERNING COUNCIL. ONE OF THEM CHOSEN BY ACCLAMATION



A. Murray Hunt (acclamation)



Gary Thaler



Victor Graham



John C. Laidlaw (2nd term)

FULL-TIME UNDERGRADUATES - CONSTITUENCY I



Gordon Barnes



Howard Levitt

Aron Goldberg (2nd term)



Charles Vickery

2 re-elected, 1 elected as alumni members of Governing Council

of Governing Council
The Alumni College of Electors on Tuesday announced the re-election of Keith C. Hendrick and James H. Joyce to the Governing Council for terms to run until June 30, 1976.
The College also reported the election of Harry John Riva to the Council, to serve from May 18 this year until June 30, 1975. Mr. Riva will hold the office on Council held by Walter J. MacNeill, whose resignation, effective May 17, has been accepted with regret. Mr. MacNeill is moving to England in June.
Harry Riva, M.B.A., University of Toronto 1969, is an engineer and a lawyer. He has a diploma in electrical engineering from the Royal Military College, his Bachelor of Science degree in electrical engineering from the University of Sakatchewan, and an L.L.B. from Osgoode Hall Law School. Mr. Riva, who practised engineering from the University of Sakatchewan, and an L.L.B. from Tory, Tory, Deslauriers & Binnington.
The new Councillor is a director of Binnington.

The new Councillor is a director of the U of T Alumni Association, a direc-tor and officer of the Faculty of Man-agement Studies Alumni Association, and is active in committee work in both organizations.

organizations.

(The announcement of the alumni election result was too late for the publication of photographs of the new Councillors in this issue.)

APRIL 5 DEADLINE

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Unicersity of Toronto Bulletin is published by the University News Bureau, 45 Willooks Street. Except for bona fide emergencies, all material for the next issue should have been in the hands of the editor, Mrs. Winogene Ferguson (928–2102) by noon yesterday. The next editorial deadline is noon, April 5.

ADMINISTRATIVE STAFF



Gwen Russell (2nd term)



Philip Dack (acclamation)



Barry Mitchell

PART-TIME UNDERGRADUATE STUDENT MEMBERS



Arlene Dick



Norma Grindal (2nd term)

Accommodation for rent

Sublet from May 15 to Aug. 15; Avenue Rd. near St. Clair; large modern apartment with living room, three bedrooms, two bathrooms, fully equipped with appliances and modern furniture; 9th floor, facing east and south; nice view. 10 minutes from campus by direct bus line. \$350/month. 928–3162 or 483–9477.

Paris apartment; ideal central loca-tion, quiet, available July 1 for 10 months or longer; suitable for single person or couple only. For information contact Prof. V. E. Graham at 928–3168 or 491–9867.

Three-bedroom house, fully furnished, living room, dining room, kitchen and small effortless garden, in quiet district, five minutes from High Park and subway; opposite small park and close to tennis courts; May 1-July 31 or August 31, 1973. \$275/month. 928-6111 or 487-5075.

STAFF NOTES

Medicine

Medicine
Paor. Philip Steakan was the Medical
Research Council Visiting Professor at the
University of British Columbia, lecturing to
the Faculties of Medicine and Pharmaceutical Sciences on "The Medical Science of
Tranquilizers" (March 14), on "Recent
Advances in the Ultrastructure, Chemistry
and Immunology of Cell Membranes'
(March 14), on "The Membrane Actions
of the Excitability-Controlling Drugs'
(March 14), on "The Membrane Actions
of the Excitability-Controlling Drugs'
(March 15), and on "The Prediction of
Anesthetic Potency" (March 16). Dr.
Anesthetic Potency" (March 16). Dr.
Academy of Medicine on March 16). The
Cells'; to the Vederical Controlling Drugs'
(March 15), and on "The Prediction of
Academy of Medicine on March 16). The
Cells'; to the Faculty of Medicine,
Queen's University, on March 5: "Actions
of Narotics'; to the Membrane Discussion
Group on Oct. 18: "Ultrastructure of
Membrane Lesions in Immune Damage';
to the Symposium of the International
Society for Neuroscience, Houston, Peas,
on Oct. 10: "The Hydrophobic Expansion
Theory of Anesthesia", to the St.
Francisco, on July 26: "The Current Version of the Meyer-Overton Rule'; to the
Canadian Federation of Biological Societies,
Laval University, on June 16: "The Membrane Ultra-structure of Complement- and
Anesthetic-induced Lesions".

Education

Education

PROF. RUDY SRAMEK, Peter Briggs, and Alex Jameson attended a seminar on sign education sponsored by the Nati Design Council in Ottawa, Jan. 19 sign estucation sponsored by the National Design Council in Ottawa, Jan. 19-21. Prof. Sramek was one of four panel members leading a discussion on the general approach to design education. Mr. Briggs and Mr. Jameson took part in two group discussions on general, as opposed to specialized design education. Prof. Sramek is a member of the education committee of the National Design Council. the National Design Council.

H. D. Gutteridge attended the Ontario Secondary Schools Headmasters' Council Conference in Toronto, January 24–26.

Physical & Health Education

PROF. K. A. W. Whyrea served as the general chairman of the First International Conference on Outdoor Education entitled "Without Boundaries". The project, attended by nearly 600 delegats, took place at Camp Kandalore and the Forest Technical School and the Council of Outdoor Educators of Ontario was host from Sept. 28 to Oct. 1.

DR. JAMES D. McClements was guest lecturer recently at the Ontario Soccer Association's Sport Medicine Seminar where he presented a paper "Goals: Sport and

Management Studies

Prof. John Cruspo served as a panelist on the Regional Dialogue for High School students organized by the Office of Ad-

Canada Management Seminar on Collective Bargaining and inflation?

Phor. R. J. Hovse participated in Management by Objective Seminar sponsored in Jan. 31. On Feb. 19, he presented a speech to Ontario Society of Training Directors entitled "Leadership for Effective Motivation". He was cross-appointed to the Faculty of Forestry for purpose of teaching courses in Organization Behavior, effective July 1, 1973. He participated on committee for competitive selection of papers to be presented at Management on papers and the presented at Management of the Committee for the analysis of professional divisions of the Academy of Management. On March 14, he conducted a seminar on Leadership and Motivation for Industrial Relations Staff of the Toronto Post Office.

Phor. B. A. KALYMON addressed a

Relations Staff of the Toronto Post Office.

Phore, B. A. KALYMON addressed a seminar at the Département d'Informatique, Université de Montréal on Feb. 22, on "Simulation-Programming, A Normative Approach to Experimentation" and visited the Quantitative Section at L'Ecole de Hantes Etudies Commerciales.

PROF. G. D. QUIRIN was a member of a panel discussion "Limits to Economic Growth" on the CBC FM network on Feb 25

Feb. 25.

Phor. JOSHUA RONEN as co-author presented his paper entitled "Relevant Accounting" at the Graduate School of Management, University of California, on Feb. 9, in Los Angeles. He also presented his paper entitled "Accounting Aggregation and the Entropy Measure – Am Experimental Approach" on Feb. 16 at the School of Management of the State University of Management of the State University of Late Craduate School of Business, New York University of Business, New York University of Prof. University of Business, New York University of Prof. Prof. University of Prof. York University.

Aerospace Studies

Dr. I. I. GLASS attended the Advisory Du. I. I. Class attended the Advisory Committee Meeting of the American Institute of Physics Information Program, Annual Meeting on March 9, 1973, Compton Board Room, American Institute of Physics, in order to discuss the present and future problems regarding the publication, accumulation and transmission of scientific and engineering information. Dr. Mana" in the McGill University Seminars in Mechanics series on March 14.

Consideration to size of humans should be given by auto designers

Automobile designers should give more attention to the design of the hu-mans the auto has to carry, three U of T students of Industrial Engineering have concluded, after studying the characteristics of 10 representative cars. Seven were North American models and three

were imports. were imports.

The object of the study, part of their undergraduate course, was to find out how well or badly various cars were matched to humans of different sizes and how much mismatching affected the accessibility of primary and secondary controls. The students were Steffen Hermsdorf, Miss Wancy Ireland and Mal-Hermsdorf, Miss Wancy Ireland and Mal-

Hernsdorf, Miss Nancy Ireland and Mal-colm Norman. They were working under the supervision of Prof. P. J. Foley. Two women, one five feet tall and representing the smallest five per cent of the population and one of 54", being average, together with a 6-foot male, representing the tallest five per cent, were chosen. All were asked in turn to sti in the various cars, restrained by standard seat and shoulder belts. They were asked to go through a succession of movements, to test their ability to manipulate controls.

The group reported that the American cars were found to be less adaptable to the needs of smaller females than were

the foreign imports. In the North American cars, for example, it was found that the smaller of the girls could not reach numerous secondary controls without un-latching both seat belts. Cases were found where she could not operate win-dow vents, heating, defrosting, light and even wiper controls. The middle-sized female and the large male had little trouble. However, the air vent controls and the under-the-dash location of the parking brake release in a number of cars were not operable in the majority of the cars by any of the subjects, because of reach limitations.

It was also observed that in many instances the driver strap came across the side of the neck before crossing the chest to the lower anchor point, a prob-lem that was acute for the smaller fe-

male.
"In view of our results" the group states, "it appears that more considera-tion should be given to the human size in design of automobiles. The problem of reaching controls will become acute for the smaller members of the driving population if there is no change in de-sign when the importance of seat resign when the importance of seat te-straints is further emphasized and is, perhaps, made obligatory by provincial legislation."

Power level of U of T SLOWPOKE is increased by a factor of four

SLOWPOKE, the nuclear rea has been operating on the St. George Campus since June, 1971, has now been uprated in power by a factor of four to a level of 20 kilowatts. This is approxi-mately the heat equivalent of a dozen electric kettles. electric kettles.

The Atomic Energy Control Board, which regulates all uses of radioactive processes in Canada, has also given per-mission for the reactor to be operated on a 24 hours-a-day basis, with long periods of no direct supervision.

Permission to increase the flux of neutrons, the life blood of any nuclear chain reaction, from 2.5 × 10¹¹ neuchain reaction, from 2.5 × 10¹¹ neutrons per square centimetre of core per second to 1.0 × 10¹² was given by AECB after careful review of 18 months of operation on the St. George Campus. SLOWPOKE was developed by the

Crown corporation, Atomic Energy- of Canada Ltd., and is on loan to the Uni-Canada Ltd., and is on loan to the University of Toronto for evaluation in a university setting. Its name stands for Safe Low Power Critical Experiment and it was designed with the needs of universities, hospitals and other smaller research establishments specifically in

The core of the reactor, comprising 298 pencils of enriched uranium-alumi-298 pencils of enriched uranium-anumalloy, is only nine inches in diameter and 10 in. high. The reactor is so designed that it has a "negative thermal coefficient". This means that, as the water surrounding the fuel elements gets warmer, the rate of the nuclear chain reaction decreases. Without such water, the reaction cannot proceed at all.

the reaction cannot proceed at all.

SLOWPOKE is situated in the Haultain Building, home of the Institute of Environmental Sciences and Engineering, but it is regarded as a campus-wide facility, open to use by workers in any relevant discipline.

Dr. Robert E. Jervis, professor of Chemical Engineering and chairman of the committee responsible for operating the reactor, stated in his first annual re-

the reactor, stated in his first annual re the reactor, stated in his first annual re-port that more than 1,000 irradiations had been performed in the first 12-month period. More than 25 project leaders in a wide variety of disciplines have made use of the reactor. Its main functions have been in the

production of shortlived radioisotopes, particularly for medical purposes, and the irradiation of specimens in what is known as neutron activation analysis.

Activation analysis is used in ecological work, as for example in the measurement of trace elements such as mercury and cadmium; in industry to monitor processes; in criminology to identify for-eign materials or to determine the origin of dusts or to detect certain poisons; in archaeology and agriculture.

Experiments in undergraduate labora-

tories can be based on regular weekly (or daily) shipments of very short-lived radionuclides or on procedures to be car-ried out by students working the reactor laboratory using communal radiation an-alysis apparatus and receiving informal briefing on the experiments from SLOW-POKE staff as well as from supervising teaching assistants. Several departments are already including such experiments in regular teaching sessions but subject

Ph.D. Orals

All members of the Graduate Faculty have the right to attend Ph.D. Oral Exam-

Thursday, April 5

John Sum Chiu Tong, Department of Mechanical Engineering. "Free Surface Flow Over Finite Bed Irregularities". Thesis supervisor: Prof. I. G. Currie. Room 108, 16 Hart House Circle. 9.30 a.m.

Thursday, April 12 Peter Richard Kry, Department of Physics. "Aerodynamics of Rotating Oblate Spheroidal Hallstone Models". Thesis super-visor: Prof. R. List. Room 108, 16 Hart House Circle. 2 p.m.

House Circle. 2 p.m.

Monday, April 16
Paul Dion, Department of Near Eastern
Studies. "La Langue de Ya'udi. Esquisse
grammaticale du dialecte Ya'udien dans la
cadre des langues semitiques du nordouset." Thesis supervisor: Prof. E. G.
Clarke. Round Room, Massey College.

to timetabling, more such undergraduate uses are welcomed. There has already been much enthusiasm generated in students using the facility.

As an extension of the total SLOW-POKE facility, and to permit many experiments with short-lived radionuclides to be competited at the periments with sont-lived radionicinicis to be completed at the reactor site, a high resolution gamma-ray spectrometer has just been installed. The unit is intended for communal use by supervised students and experimenters having materials irradiated by SLOWPOKE neutrons. This instruments trons. This instrument permits multi-element trace activation analyses to be completed rapidly within the SLOW-POKE laboratory, or an immediate scrutiny to be made, on site, of the purity and amount of isotopes prepared in the

A commercial version of SLOWPOKE has been developed by AECL (Com-mercial Products Division) and is now being offered to organizations through-out the world.

Library move being planned

Completion of the Robarts Library has been delayed several months by the strike of elevator installers. Now that the strike has been ended, the Chief Librarian and his staff are making plans to move the Humanities and Social Sciences stack collection into the building as soon as elevators and escalators are ready. Moving the collection is ex-pected to take about six weeks. To facil-itate control of the move it will be necessary for the bookstack at both ends necessary for the bookstack at both ends of the operation to be closed to readers during that period. However, there will be an attempt to maintain all other ser-vices, including the lending service, without interruption during the move.

Conditional discharge for T J McLaughlin

Thomas J. McLaughlin, convicted on Feb. 9 of obstructing a Metropolitan Toronto police officer in the execution of his duty during the eviction of students and others occupying Simcoe Hall on March 12, 1972, was given a conditional discharge, with probation for one year, in Provincial Court last week. Judge M. J. Cloney said that, although Judge M. J. Cloney said that, although the offence was too serious a one to justify an absolute discharge, the pre-sentence report was favourable to the accused and his good record made it possible for the court to grant condi-tional discharge.

Miss Purity II on display at CNE from April 2 to 4

National Exhibition grounds, April 2-4.
Normal show hours are noon till 9

p.m. but students will be admitted also between 10 a.m. and noon. Badges are available from Prof. I. W. Smith, 229 Mechanical Engineering.

EXHIBITIONS

Paintings of Mary Pratt. Erindale College. Until April 22.

Until April 22.
Paintings by Gershon Iskowitz, exhibited at the Venice Biennale, 1972. Hart House Art Gallery until April 15. Monday, 11 a.m.—9 p.m.; Tuesday–Saturday, 11 a.m.—5 p.m.; Sunday, 2–5 profits of drawings and water-olour by 3 belley Graves Shaw. New Acadous by 3 belley Graves Shaw. New Acadous by 10 and 1

display on Nicolaus Copernicus 1473-A display on Inconsts Copermicus 1475-1543 has opened in the Sigmund Samuel foyer and the Science and Medicine lobby of the University Library. To mid-April. "With a Painter's Eye". Portraits by Cavouk. Third floor rotunda, ROM. Until April 15.